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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/673,120	09/26/2003	Michael E. O'Donnell	22221/1070 (RU 339)	2639
Nixon Peabody	7590 12/03/200 LLP	EXAMINER		
Clinton Square		HUTSON, RICHARD G		
P.O. Box 31051 Rochester, NY 14603-1051			ART UNIT	PAPER NUMBER
,			1652	
			MAIL DATE	DELIVERY MODE
			12/03/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/673,120	O'DONNELL ET AL.
Office Action Summary	Examiner	Art Unit
	Richard G. Hutson	1652
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>papers</u> This action is FINAL . 2b)⊠ This 3)□ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 16-19 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 16-19 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	awn from consideration.	
9) The specification is objected to by the Examin	ner.	
10) The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct should be a should be acceptable and the should be acceptable as a should be acceptable a	cepted or b) objected to by the lead of a drawing(s) be held in abeyance. Section is required if the drawing(s) is objection	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat* See the attached detailed Office action for a list	nts have been received. nts have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate

DETAILED ACTION

Applicant's cancellation of claims 1, 2, 5, 7-8 and 11-15, in the paper of 8/21/2008, is acknowledged. Claims 16-19 are at issue and are present for examination. Applicants' arguments filed on 8/21/2008, have been fully considered and are deemed to be persuasive to overcome some of the rejections previously applied. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn.

Upon further consideration, it has come to the attention of the examiner that the following rejections are appropriate and thus this action is non-final. Any inconvenience to applicants is regretted.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 16 is rejected under 35 U.S.C. 102(b) as being anticipated by Deckert et al. (TrEMBLrel database, Accession number O67486, 01-AUG-1998, see IDS).

Deckert et al. teach a 305 amino acid protein from Aquifex aeolicus that is 100% identical to instantly disclosed delta prime subunit of SEQ ID NO: 126. Thus Deckert et al. anticipates claim 16.

Art Unit: 1652

Claims 16 is rejected under 35 U.S.C. 102(b) as being anticipated by Deckert et al. (Nature, Vol 392, pp 353- 364, 1998, See IDS of 6/23/2008).

Deckert et al. teach a 305 amino acid protein from Aquifex aeolicus that is 100% identical to instantly disclosed delta prime subunit of SEQ ID NO: 126. Thus Deckert et al. anticipates claim 16.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Janjic et al. (U.S. Patent No. 6,677,146 B1 issued 1/13/2004) and Deckert et al. (Nature, Vol 392, pp 353- 364, 1998, See IDS of 6/23/2008).

Janjic et al. teach the gene encoding and amino acid sequences of DNA Polymerase III holoenzyme subunits from a number of thermophilic organisms. In particular Janjic et al. teach the DNA polymerase III holoenzyme subunit and accessory proteins of *T. thermophilus* as well as antibodies, primers, probes and other reagents useful to identify DNA polymerase III molecules. Janjic et al. specifically teach the delta prime -subunit of DNA polymerase III holoenzyme from E. coli, *T. thermophilus*, and *Aquifes aeolicus*. Janjic et al. also teach that the present invention provides isolated DNA polymerase III holoenzyme subunits and accessory proteins from thermophilic organism, preferably from a member of the genera Thermus, Thermotoga, and Aquifex.

Art Unit: 1652

Deckert et al. teach the complete genome of the hyperthermophilic bacterium Aquifex aeolicus and the identification a gene encoding a number of the DNA polymerase III holoenzyme subunits. Deckert et al. further teach a 305 amino acid protein from *Aquifex aeolicus* that is 100% identical to instantly disclosed delta prime subunit of SEQ ID NO: 126.

One of skill in the art at the time of filing would have been motivated to isolate the the DNA polymerase III holoenzyme and clamp loader complex of *Aquifex aeolicus* using the polyclonal antibodies of Janjic et al. and the *Aquifex aeolicus* of Deckert et al. The motivation to isolate this subunit is to identify those DNA polymerase activities found in the preparation of Aquifex aeolicus cells of Deckert et al. The expectation of success is high based upon the high degree of skill in the art with respect to protein purification and the results of both Janjic et al. who successfully isolate the delta prime subunit of DNA polymerase III from *T. thermophilus* and the results of Deckert et al. who suggest that a DNA Polymerase III holoenzyme and accessory proteins such as a clamp loader complex exist in *Aquifex aeolicus*.

It is noted that the amino acid sequence of SEQ ID NO: 126 of the delta prime subunit of DNA polymerase III of *Aquifex aeolicus* is a feature that is inherent to the subunit. It would have been obvious to put the isolated delta prime subunit in some sort of container that would have also inherently had some residual dNTPs, Thus meeting the limitation of claim 19. Thus claims 16-19 are obvious over Janjic et al. (U.S. Patent No. 6,677,146 B1 issued 1/13/2004) and Deckert et al. (Nature, Vol 392, pp 353- 364, 1998).

Application/Control Number: 10/673,120 Page 5

Art Unit: 1652

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard G. Hutson whose telephone number is 571-272-0930. The examiner can normally be reached on M-F, 7:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nashaat T. Nashed can be reached on 571-272-0934. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

rgh 12/1/2008

/Richard G Hutson/ Primary Examiner, Art Unit 1652